

Amendments to the Claims:

Claims 5, 8, 17, 20, 29, and 32 have been amended. Claims 38 and 39 have been cancelled, without prejudice. All of the pending claims 1-10, 13-22, 25-34, 37 and 40 are presented below. This listing of claims will replace all prior versions and listings of claims in the application. Please enter these claims as presented.

Listing of Claims:

Please cancel Claims 38 and 39, without prejudice.

1. (Original) A method for operating a wireless communications device, comprising operations of:

responsive to wakeup from a reduced power sleep state, performing operations comprising: detecting signal quality of one or more prescribed signals received by the wireless communications device, receiving signals including (1) scheduled network transmission of a call-paging message and (2) a first number of at least one instance of a repeating network transmitted broadcast-paging message that occurs multiple times for each scheduled transmission of the call-paging message, where the first number varies inversely with the detected signal quality;

where call-paging message content indicates whether the network has received an incoming call for the device, and broadcast-paging message content indicates whether the network has announced availability of on-demand broadcast content.

2. (Original) The method of claim 1, the operations further comprising:

prior to re-entering the sleep state, computing a next wakeup time in order to minimize a total time of receiving the call-paging message and a second number of at least one instance of the broadcast-paging message, and configuring the wireless device to wake at the computed next wakeup time.

3. (Original) The method of claim 2, where:

the operations further comprise the wireless device obtaining information including: a time of network transmission of the next call-paging message, and a schedule for network transmission of the repeating broadcast-paging message;

performance of the computing operation utilizes data including the obtained information.

4. (Original) The method of claim 2, the operation of computing the next wakeup time comprising:

planning an order of receiving the call-paging message and the broadcast-paging messages to minimize the total time.

5. (Currently Amended) A method for operating a wireless communications device, comprising operations of:

responsive to wakeup from a reduced power sleep state, performing operations comprising: detecting signal quality of one or more prescribed signals received by the wireless communications device, receiving signals including (1) scheduled network transmission of a call-paging message and (2) a first number of at least one instance of a repeating network transmitted broadcast-paging message that occurs multiple times for each scheduled transmission of the call-paging message, where the first number varies inversely with the detected signal quality;

where call-paging message content indicates whether the network has received an incoming call for the device, and broadcast-paging message content indicates whether the network has announced availability of on-demand broadcast content[.];

prior to re-entering the sleep state, computing a next wakeup time in order to minimize a total time of receiving the call-paging message and a second number of at least one instance of the broadcast-paging message, and configuring the wireless device to wake at the computed next wakeup time; and

[[The method of claim 2,]] wherein the operation of computing the next wakeup time compris[ing]es:

if the second number is greater than one, planning the next wakeup time to receive at least one broadcast-paging message before the next call-paging message.

6. (Original) The method of claim 2, the operation of computing the next wakeup time further comprising:

re-detecting signal quality of one or more prescribed signals received by the wireless communications device;

where the second number varies inversely with the re-detected signal quality.

7. (Original) The method of claim 2, where the second number varies inversely with the detected signal quality.

8. (Currently Amended) A method for operating a wireless communications device, comprising operations of:

responsive to wakeup from a reduced power sleep state, performing operations comprising: detecting signal quality of one or more prescribed signals received by the wireless communications device, receiving signals including (1) scheduled network transmission of a call-paging message and (2) a first number of at least one instance of a repeating network transmitted broadcast-paging message that occurs multiple times for each scheduled transmission of the call-paging message, where the first number varies inversely with the detected signal quality;

where call-paging message content indicates whether the network has received an incoming call for the device, and broadcast-paging message content indicates whether the network has announced availability of on-demand broadcast content; and

[[The method of claim 1,]] the operations further comprising:

planning the first number in regard to a next wakeup, and storing a machine-readable representation of the first number for future retrieval and use by the wireless communications device responsive to the next wakeup.

9. (Original) The method of claim 1, where the operation of receiving signals comprises:
evaluating the signal quality per a predetermined criteria;

establishing the first number according to results of the evaluation.

10. (Original) The method of claim 1, the operations further comprising:

the wireless communications device re-entering the sleep state substantially immediately after receipt of the call-paging message and the first number of instances of the broadcast-paging message.

11. (Cancelled)

12. (Cancelled)

13. (Original) At least one signal bearing medium tangibly embodying a program of machine-readable instructions executable by a digital data processor to perform operations to manage a wireless communications device, the operations comprising:

responsive to wakeup from a reduced power sleep state, performing operations comprising: detecting signal quality of one or more prescribed signals received by the wireless communications device, receiving signals including (1) scheduled network transmission of a call-paging message and (2) a first number of at least one instance of a repeating network transmitted broadcast-paging message that occurs multiple times for each scheduled transmission of the call-paging message, where the first number varies inversely with the detected signal quality;

where call-paging message content indicates whether the network has received an incoming call for the device, and broadcast-paging message content indicates whether the network has announced availability of on-demand broadcast content.

14. (Original) The medium of claim 13, the operations further comprising:

prior to re-entering the sleep state, computing a next wakeup time in order to minimize a total time of receiving the call-paging message and a second number of at least one instance of the broadcast-paging message, and configuring the wireless communications device to wake at the computed next wakeup time.

15. (Original) The medium of claim 14, where:

the operations further comprise the wireless device obtaining information including: a time of network transmission of the next call-paging message, and a schedule for network transmission of the repeating broadcast-paging message;

performance of the computing operation utilizes data including the obtained information.

16. (Original) The medium of claim 14, the operation of computing the next wakeup time comprising:

planning an order of receiving the call-paging message and the broadcast-paging messages to minimize the total time.

17. (Currently Amended) At least one signal bearing medium tangibly embodying a program of machine-readable instructions executable by a digital data processor to perform operations to manage a wireless communications device, the operations comprising:

responsive to wakeup from a reduced power sleep state, performing operations comprising: detecting signal quality of one or more prescribed signals received by the wireless communications device, receiving signals including (1) scheduled network transmission of a call-paging message and (2) a first number of at least one instance of a repeating network transmitted broadcast-paging message that occurs multiple times for each scheduled transmission of the call-paging message, where the first number varies inversely with the detected signal quality;

where call-paging message content indicates whether the network has received an incoming call for the device, and broadcast-paging message content indicates whether the network has announced availability of on-demand broadcast content;

prior to re-entering the sleep state, computing a next wakeup time in order to minimize a total time of receiving the call-paging message and a second number of at least one instance of the broadcast-paging message, and configuring the wireless communications device to wake at the computed next wakeup time; and

[[The medium of claim 14,]] wherein the operation of computing the next wakeup time compris[[ing]]es:

if the second number is greater than one, planning the next wakeup time to receive at least one broadcast-paging message before the next call-paging message.

18. (Original) The medium of claim 14, the operation of computing the next wakeup time further comprising:

re-detecting signal quality of one or more prescribed signals received by the wireless communications device;

where the second number varies inversely with the re-detected signal quality.

19. (Original) The medium of claim 14, where the second number varies inversely with the detected signal quality.

20. (Currently Amended) At least one signal bearing medium tangibly embodying a program of machine-readable instructions executable by a digital data processor to perform operations to manage a wireless communications device, the operations comprising:

responsive to wakeup from a reduced power sleep state, performing operations comprising: detecting signal quality of one or more prescribed signals received by the wireless communications device, receiving signals including (1) scheduled network transmission of a call-paging message and (2) a first number of at least one instance of a repeating network transmitted broadcast-paging message that occurs multiple times for each scheduled transmission of the call-paging message, where the first number varies inversely with the detected signal quality;

where call-paging message content indicates whether the network has received an incoming call for the device, and broadcast-paging message content indicates whether the network has announced availability of on-demand broadcast content; and

[[The medium of claim 13,]] wherein the operations further compris[[ing]]:

planning the first number in regard to a next wakeup, and storing a machine-readable representation of the first number for future retrieval and use by the wireless communications device responsive to the next wakeup.

21. (Original) The medium of claim 13, where the operation of receiving signals comprises:

evaluating the signal quality per a predetermined criteria;

establishing the first number according to results of the evaluation.

22. (Original) The medium of claim 13, the operations further comprising:

the wireless communications device re-entering the sleep state substantially immediately after receipt of the call-paging message and the first number of instances of the broadcast-paging message.

23. (Cancelled)

24. (Cancelled)

25. (Original) Circuitry including multiple interconnected electrically conductive elements configured to perform operations to manage a wireless communications device, the operations comprising:

responsive to wakeup from a reduced power sleep state, performing operations comprising: detecting signal quality of one or more prescribed signals received by the wireless communications device, receiving signals including (1) scheduled network transmission of a call-paging message and (2) a first number of at least one instance of a repeating network transmitted broadcast-paging message that occurs multiple times for each scheduled transmission of the call-paging message, where the first number varies inversely with the detected signal quality;

where call-paging message content indicates whether the network has received an incoming call for the device, and broadcast-paging message content indicates whether the network has announced availability of on-demand broadcast content.

26. (Original) The circuitry of claim 25, the operations further comprising:

prior to re-entering the sleep state, computing a next wakeup time in order to minimize a total time of receiving the call-paging message and a second number of at least one instance of the broadcast-paging message, and configuring the wireless communications device to wake at the computed next wakeup time.

27. (Original) The circuitry of claim 26, where:

the operations further comprise the wireless device obtaining information including: a time of network transmission of the next call-paging message, and a schedule for network transmission of the repeating broadcast-paging message;

performance of the computing operation utilizes data including the obtained information.

28. (Original) The circuitry of claim 26, the operation of computing the next wakeup time comprising:

planning an order of receiving the call-paging message and the broadcast-paging messages to minimize the total time.

29. (Currently Amended) Circuitry including multiple interconnected electrically conductive elements configured to perform operations to manage a wireless communications device, the operations comprising:

responsive to wakeup from a reduced power sleep state, performing operations comprising: detecting signal quality of one or more prescribed signals received by the wireless communications device, receiving signals including (1) scheduled network transmission of a call-paging message and (2) a first number of at least one instance of a repeating network transmitted broadcast-paging message that occurs multiple times for each scheduled transmission of the call-paging message, where the first number varies inversely with the detected signal quality;

where call-paging message content indicates whether the network has received an incoming call for the device, and broadcast-paging message content indicates whether the network has announced availability of on-demand broadcast content; and

[[The circuitry of claim 26,]] wherein the operation of computing the next wakeup time compris[ing]es:

if the second number is greater than one, planning the next wakeup time to receive at least one broadcast-paging message before the next call-paging message.

30. (Original) The circuitry of claim 26, the operation of computing the next wakeup time further comprising:

re-detecting signal quality of one or more prescribed signals received by the wireless communications device;

where the second number varies inversely with the re-detected signal quality.

31. (Original) The circuitry of claim 26, where the second number varies inversely with the detected signal quality.

32. (Currently Amended) Circuitry including multiple interconnected electrically conductive elements configured to perform operations to manage a wireless communications device, the operations comprising:

responsive to wakeup from a reduced power sleep state, performing operations comprising: detecting signal quality of one or more prescribed signals received by the wireless communications device, receiving signals including (1) scheduled network transmission of a call-paging message and (2) a first number of at least one instance of a repeating network transmitted broadcast-paging message that occurs multiple times for each scheduled transmission of the call-paging message, where the first number varies inversely with the detected signal quality;

where call-paging message content indicates whether the network has received an incoming call for the device, and broadcast-paging message content indicates whether the network has announced availability of on-demand broadcast content; and

[[The circuitry of claim 25,]] wherein the operations further compris[[ing]]e:

planning the first number in regard to a next wakeup, and storing a machine-readable representation of the first number for future retrieval and use by the wireless communications device responsive to the next wakeup.

33. (Original) The circuitry of claim 25, where the operation of receiving signals comprises:

evaluating the signal quality per a predetermined criteria;

establishing the first number according to results of the evaluation.

34. (Original) The circuitry of claim 25, the operations further comprising:

the wireless communications device re-entering the sleep state substantially immediately after receipt of the call-paging message and the first number of instances of the broadcast-paging message.

35. (Cancelled)

36. (Cancelled)

37. (Original) A wireless communications device, comprising:

a transceiver;

a speaker;

a microphone;

a user interface;

a manager, coupled to the transceiver, speaker, microphone, and user interface, and programmed to perform operations comprising:

responsive to wakeup from a reduced power sleep state, performing operations comprising:

detecting signal quality of one or more prescribed signals received by the wireless communications device, receiving signals including (1) scheduled network transmission of a call-paging message and (2) a first number of at least one instance of a repeating network transmitted broadcast-paging message that occurs multiple times for each scheduled transmission of the call-paging message, where the first number varies inversely with the detected signal quality;

where call-paging message content indicates whether the network has received an incoming call for the device, and broadcast-paging message content indicates whether the network has announced availability of on-demand broadcast content.

38. (Cancelled)

39. (Cancelled)

40. (Original) A wireless communications device, comprising:

means for transceiving;

speaker means for producing an audible signal from an electrical signal;

microphone means for producing an electrical signal from an audible signal;

user interface means for exchanging information with an operator;

manager means for performing operations comprising:

responsive to wakeup from a reduced power sleep state, performing operations comprising:

detecting signal quality of one or more prescribed signals received by the wireless communications device, receiving signals including (1) scheduled network transmission of a call-paging message and (2) a first number of at least one instance of a repeating network transmitted broadcast-paging message that occurs multiple times for each scheduled transmission of the call-paging message, where the first number varies inversely with the detected signal quality;

where call-paging message content indicates whether the network has received an incoming call for the device, and broadcast-paging message content indicates whether the network has announced availability of on-demand broadcast content.

41. (Cancelled)

42. (Cancelled)

43. (Cancelled)

44. (Cancelled)

45. (Cancelled)

46. (Cancelled)

47. (Cancelled)

48. (Cancelled)

49. (Cancelled)

50. (Cancelled)

51. (Cancelled)

52. (Cancelled)

53. (Cancelled)